

What is claimed:

1. A system for testing a transformer comprising:

a processor comprising a transformer test engine adapted to execute a transformer

5 test sequence;

a controller coupled to the processor to output control commands;

a switcher coupled between the controller and the transformer to switch power to
the controller responsive to the control commands; and

a metering system coupled between the transformer and the processor to receive
10 measurements from the transformer and provide the measurements to the processor.

2. The system of claim 1, further comprising a memory device coupled to the processor
for storing transformer specifications.

15 3. The system of claim 1, further comprising a memory device for storing the transformer
test sequence.

4. The system of claim 1, wherein the processor further comprises a test sequence editor
to allow customization of the transformer test sequence.

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5. The system of claim 4, further comprising an input device for receiving commands into
the test sequence editor.

6. The system of claim 1, wherein the transformer test sequence comprises a plurality of
25 test instructions and associated parameters.

7. A method for testing a transformer comprising:

connecting the transformer to a processor comprising a transformer test engine;

loading a customized transformer test sequence into the processor; and

30 executing the customized transformer test sequence with the transformer test
engine.

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8. The method of claim 7, further comprising:
 providing results of the execution to the processor;
 providing transformer specifications to the processor; and
 determining whether the transformer passes responsive to the results and the
5 transformer specifications.
9. The method of claim 8, further comprising activating an indicator responsive to the
step of determining.
- 10 10. The method of claim 8, further comprising storing the results in a memory device.
11. The method of claim 7, further comprising receiving the customized transformer test
sequence prior to loading.
- 15 12. The method of claim 7, wherein executing the customized transformer test sequence
comprises sequentially executing a plurality of test instructions with associated parameters
until one of the end of the sequence is reached and an abort command is received.
13. A method for creating or editing a customized transformer test program comprising:
20 selecting at least one test instruction or pre-existing sequence of test instructions
from a plurality of transformer test instructions;
 providing at least one associated parameter for each of the selected test instructions
or pre-existing sequence of test instructions; and
 defining an order of execution of each of the test instructions.
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14. The method of claim 13, further comprising storing the order of execution of each of
the test instructions.
15. The method of claim 13, further comprising executing the test instructions in
30 accordance with the order.

16. The method of claim 13, further comprising receiving an input command, and wherein the step of selecting is performed in response to the input command.

17. The method of claim 13, further comprising generating a transformer test sequence
5 based on the order.

18. A computer readable medium having computer-executable instructions for performing the steps comprising:

selecting at least one test instruction or pre-existing sequence of test instructions
10 from a plurality of transformer test instructions;
providing at least one associated parameter for each of the selected test instructions
or pre-existing sequence of test instructions; and
defining an order of execution of each of the test instructions.

15 19. The computer readable medium of claim 18, having further computer-executable instructions for storing the order of execution of each of the test instructions.

20. The computer readable medium of 18, having further computer-executable instructions for executing the test instructions in accordance with the order.

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21. The computer readable medium of 18, having further computer-executable instructions for receiving an input command, and wherein the step of selecting is performed in response to the input command.

25 22. The computer readable medium of 18, having further computer-executable instructions for generating a transformer test sequence based on the order.

23. In a computer implemented device having a computer readable storage medium
having computer executable components, the computer executable components
30 comprising:

a data store for storing a transformer test sequence comprising a plurality of transformer tests to be performed on a transformer by a transformer test engine; and

a processor for reading the transformer test sequence and directing the transformer test engine to operate in accordance with the transformer test sequence.

24. The device of claim 23, wherein the data store further stores transformer
5 specifications.

25. The device of claim 23, wherein the processor further receives commands for creating and editing the transformer test sequence.

10 26. The device of claim 23, wherein the transformer test sequence comprises a plurality of test instructions and associated parameters.

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